



SEQUENCE LISTING

<110> Alnemri, Emad S.

<120> AN IAP BINDING PEPTIDE OR POLYPEPTIDE
AND METHODS OF USING THE SAME

<130> 480140.465

<140> US 09/939,293

<141> 2001-08-24

<160> 27

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (20)...(739)

<400> 1

B³

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Met Ala Ala Leu Lys Ser Trp Leu Ser Arg Ser	
1 5 10	
gta act tca ttc ttc agg tac aga cag tgt ttg tgt gtt cct gtt gtg	100
Val Thr Ser Phe Phe Arg Tyr Arg Gln Cys Leu Cys Val Pro Val Val	
15 20 25	
gct aac ttt aag aag cgg tgt ttc tca gaa ttg ata aga cca tgg cac	148
Ala Asn Phe Lys Lys Arg Cys Phe Ser Glu Leu Ile Arg Pro Trp His	
30 35 40	
aaa act gtg acg att ggc ttt gga gta acc ctg tgt gcg gtt cct att	196
Lys Thr Val Thr Ile Gly Phe Gly Val Thr Leu Cys Ala Val Pro Ile	
45 50 55	
gca cag aaa tca gag cct cat tcc ctt agt agt gaa gca ttg atg agg	244
Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg	
60 65 70 75	
aga gca gtg tct ttg gta aca gat agc acc tct acc ttt ctc tct cag	292
Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln	
80 85 90	
acc aca tat gcg ttg att gaa gct att act gaa tat act aag gct gtt	340
Thr Thr Tyr Ala Leu Ile Glu Ala Ile Thr Glu Tyr Thr Lys Ala Val	

95 100 105
 tat acc tta act tct ctt tac cga caa tat aca agt tta ctt ggg aaa 388
 Tyr Thr Leu Thr Ser Leu Tyr Arg Gln Tyr Thr Ser Leu Leu Gly Lys
 110 115 120
 atg aat tca gag gag gaa gat gaa gtg tgg cag gtg atc ata gga gcc 436
 Met Asn Ser Glu Glu Glu Asp Glu Val Trp Gln Val Ile Ile Gly Ala
 125 130 135
 aga gct gag atg act tca aaa cac caa gag tac ttg aag ctg gaa acc 484
 Arg Ala Glu Met Thr Ser Lys His Gln Glu Tyr Leu Lys Leu Glu Thr
 140 145 150 155
 act tgg atg act gca gtt ggt ctt tca gag atg gca gca gaa gct gca 532
 Thr Trp Met Thr Ala Val Gly Leu Ser Glu Met Ala Ala Glu Ala Ala
 160 165 170
 tat caa act ggc gca gat cag gcc tct ata acc gcc agg aat cac att 580
 Tyr Gln Thr Gly Ala Asp Gln Ala Ser Ile Thr Ala Arg Asn His Ile
 175 180 185
 cag ctg gtg aaa ctg cag gtg gaa gag gtg cac cag ctc tcc cgg aaa 628
 Gln Leu Val Lys Leu Gln Val Glu Glu Val His Gln Leu Ser Arg Lys
 190 195 200
 gca gaa acc aag ctg gca gaa gca cag ata gaa gag ctc cgt cag aaa 676
 Ala Glu Thr Lys Leu Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys
 205 210 215
 aca cag gag gaa ggg gag gag cgg gct gag tcg gag cag gag gcc tac 724
 Thr Gln Glu Glu Gly Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr
 220 225 230 235
 ctg cgt gag gat tga gggcctgagc acaactgccct gtctccccac tcagtgggga 779
 Leu Arg Glu Asp *

aagcaggggc agatgccacc ctgcccaggg ttggcatgac tgtctgtgca ccgagaagag 839
 gcggcaggtc ctgccctggc caatcaggcg agacgccttt gtgagctgtg agtgcctcct 899
 gtggtctcag gcttgcgctg gacctggttc ttagcccttg ggcactgcac cctgtttaac 959
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 acaggactta acatcaacag gacttaacac agaaaaaaaa 1358

<210> 2
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 <213> Homo sapiens

<400> 2

Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
 1 5 10 15
 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
 20 25 30
 Phe Leu Ser Gln Thr Thr Tyr Ala
 35 40

<210> 3

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 4

<223> Xaa = Arg, Gln or Gly

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Gln Ala Cys Xaa Gly
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<210> 4

<211> 7

<212> PRT

<213> Homo sapiens

<400> 4

Met Lys Ser Asp Phe Tyr Phe
 1 5

<210> 5

<211> 5

<212> PRT

<213> Homo sapiens

<400> 5

Ala Val Pro Ile Ala
 1 5

<210> 6

<211> 7

<212> PRT

<213> Homo sapiens

<400> 6

Ala Val Pro Ile Ala Gln Lys
 1 5

B3
wt

<210> 7
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 7
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 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr
 20 25 30

<210> 8
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 8
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 1 5 10 15
 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
 20 25 30
 Phe Leu Ser Gln Thr Thr Tyr
 35

B3
 WA
 <210> 9
 <211> 9
 <212> PRT
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<400> 9
 Met Lys Ser Asp Phe Tyr Phe Gln Lys
 1 5

<210> 10
 <211> 8
 <212> PRT
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<400> 10
 Thr Asp Ser Thr Ser Thr Phe Leu
 1 5

<210> 11
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 11
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 1 5 10 15

Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
 20 25 30
 Phe Leu Ser
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<210> 12
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 12
 Ile Glu Thr Asp Ala Val Pro Ile Ala
 1 5

<210> 13
 <211> 4
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<400> 13
 Ala Val Pro Ile
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B3
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 <210> 14
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 14
 Ala Thr Pro Phe
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<210> 15
 <211> 4
 <212> PRT
 <213> Drosophila sp.

<400> 15
 Ala Val Ala Phe
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<210> 16
 <211> 4
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 <213> Drosophila sp.

<400> 16
 Ala Val Pro Phe
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<210> 17
 <211> 4
 <212> PRT
 <213> Mus musculus

<400> 17
 Ala Val Pro Tyr
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<210> 18
 <211> 4
 <212> PRT
 <213> Xenopus sp.

<400> 18
 Ala Thr Pro Val
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<210> 19
 <211> 239
 <212> PRT
 <213> Homo sapiens

<400> 19

B3
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Met	Ala	Ala	Leu	Lys	Ser	Trp	Leu	Ser	Arg	Ser	Val	Thr	Ser	Phe	Phe
1				5					10					15	
Arg	Tyr	Arg	Gln	Cys	Leu	Cys	Val	Pro	Val	Val	Ala	Asn	Phe	Lys	Lys
			20					25					30		
Arg	Cys	Phe	Ser	Glu	Leu	Ile	Arg	Pro	Trp	His	Lys	Thr	Val	Thr	Ile
		35					40					45			
Gly	Phe	Gly	Val	Thr	Leu	Cys	Ala	Val	Pro	Ile	Ala	Gln	Lys	Ser	Glu
	50					55					60				
Pro	His	Ser	Leu	Ser	Ser	Glu	Ala	Leu	Met	Arg	Arg	Ala	Val	Ser	Leu
65					70					75				80	
Val	Thr	Asp	Ser	Thr	Ser	Thr	Phe	Leu	Ser	Gln	Thr	Thr	Tyr	Ala	Leu
				85					90					95	
Ile	Glu	Ala	Ile	Thr	Glu	Tyr	Thr	Lys	Ala	Val	Tyr	Thr	Leu	Thr	Ser
			100					105					110		
Leu	Tyr	Arg	Gln	Tyr	Thr	Ser	Leu	Leu	Gly	Lys	Met	Asn	Ser	Glu	Glu
		115					120					125			
Glu	Asp	Glu	Val	Trp	Gln	Val	Ile	Ile	Gly	Ala	Arg	Ala	Glu	Met	Thr
	130					135					140				
Ser	Lys	His	Gln	Glu	Tyr	Leu	Lys	Leu	Glu	Thr	Thr	Trp	Met	Thr	Ala
145					150					155				160	
Val	Gly	Leu	Ser	Glu	Met	Ala	Ala	Glu	Ala	Tyr	Gln	Thr	Gly	Ala	
				165					170					175	
Asp	Gln	Ala	Ser	Ile	Thr	Ala	Arg	Asn	His	Ile	Gln	Leu	Val	Lys	Leu
			180					185					190		
Gln	Val	Glu	Glu	Val	His	Gln	Leu	Ser	Arg	Lys	Ala	Glu	Thr	Lys	Leu
		195					200						205		

Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys Thr Gln Glu Glu Gly
 210 215 220
 Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr Leu Arg Glu Asp
 225 230 235

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 <212> PRT
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<400> 20
 Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser
 1 5 10

<210> 21
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 <212> PRT
 <213> Homo sapiens

<400> 21
 Met Lys Ser Asp Phe Tyr Phe Gln Lys Ser Glu Pro His Ser
 1 5 10

<210> 22
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 22
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 1 5 10 15
 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
 20 25 30
 Phe Leu Ser Gln Thr Thr Tyr Ala
 35 40

<210> 23
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deletion mutant of Smac

<400> 23
 Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg
 1 5 10 15
 Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln
 20 25 30
 Thr Thr Tyr Ala

B³
 cont

35

<210> 24
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deletion mutant of Smac

<400> 24
 Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln Thr
 1 5 10 15
 Thr Tyr Ala

<210> 25
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 1 5

<210> 26
 <211> 30
 <212> PRT
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<220>
 <223> Deletion mutant of Smac

<400> 26
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 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr
 20 25 30

<210> 27
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deletion mutant of Smac

<400> 27

Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
1 5 10 15
Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
20 25 30
Phe Leu Ser Gln Thr Thr Tyr
35
